

FTR4 WEAR-FREE MULTITURN ABSOLUTE ROTARY SENSOR



*Designed for harsh applications with effective design.
Innovative solution 100% wear free.
Suitable for functional safety applications.*



FTR4 is an innovative solution to deliver an absolute multiturn rotary angle with a 100% contactless and wear-free industrialization. Such design minimizes several threats related to installation and long term product life.



KEY VALUES



Shock proof



Magnetic technology

CAN

CAN open
Digital Out



IP68 and IP69K
protection class



Wide temperature
range



Absolute multiturn

Description	P/N
FTR4 dual	1110600

Default Parameters:

360° full scale

CANopen 406 profile

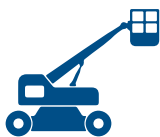
ID node No.1: 0x1F

ID node No.2: 0x1E (Redundant only)

Baud rate 125kbps



APPLICATIONS



Material Handling
and Lifting Technology



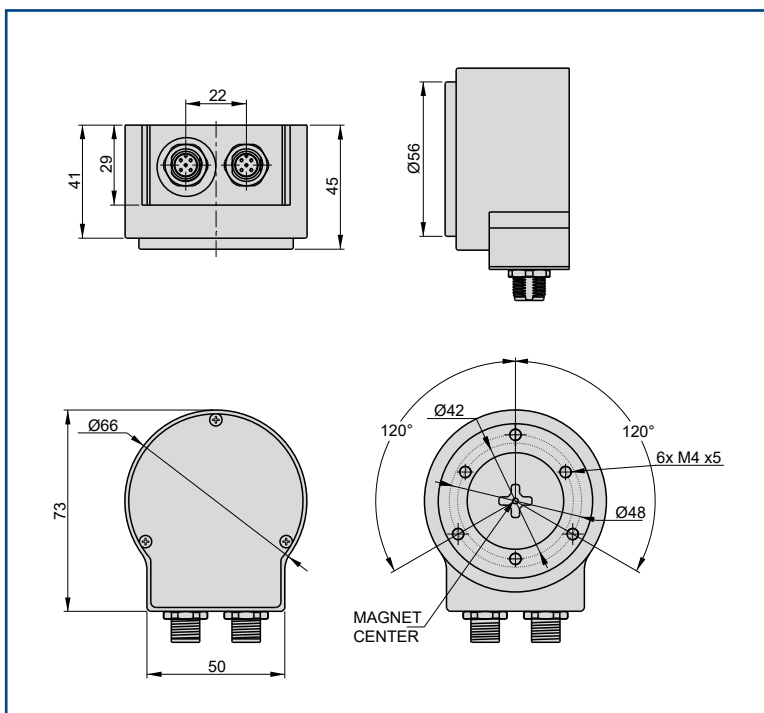
Construction Equipment

TECHNICAL DATA

Measurement Range	360° continuous multiturns
Supply voltage	+9...+36Vdc
Output signals	CANopen DS406 profile
Electrical connections	M12 connector or cable output
Resolution and diagnostic	Single turn (CANopen): up to 12 bit programmable Multiturn (CANopen): up to 28 bits (65535 turns scalable)
Independent linearity	<±1% FS on single turn (equivalent to <±1/N% FS on N turns)
Working temperature and coefficient	-40°C...+85°C with drift < 50 ppm/°C
Vibrations	20g between 10 Hz...2000 Hz IEC 60068-2-6
Shock	Pulse on 3 axes; 50g 11 ms IEC 60068-2-27
Electromagnetic compatibility	EN 61000-4-2 Electrostatic discharge (ESD) 4 kV, 8 kV EN 61000-4-3 Electromagnetic fields 30 V/m EN 61000-4-4 Electrical fast transients (burst) 1 kV EN 61000-4-6 Conducted disturbances, RF-fields 10 Veff. EN 55016-2-3 Radiated disturbances
IP Protection Level	IP66, IP68 and IP69K
Housing body	Aluminium anodized black

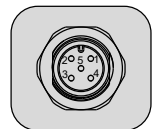
All performance data are values resulting from qualification tests on specific configuration sample production batch.
Final product configuration, actual application and respect of installation recommendation may impact on some performance data.
Where not differently indicated, data refer to Tamb condition test environment.

DIMENSIONS

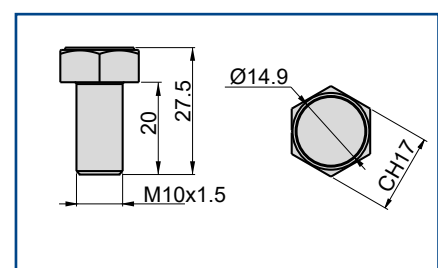


CONNECTOR

N PIN	CANbus
1	CAN-S
2	+VIN
3	GND
4	CAN-H
5	CAN-L



MAGNET



ORDERING KEY

FAMILY	SUBFAMILY	CASE MATERIAL	CONNECTOR	CHANNEL 1 RANGE (±)	CHANNEL 2 RANGE (±) AND VERSE	SUPPLY VOLTAGE	OUTPUT TYPE	SPECIAL / CUSTOM FEATURE / SW / CUSTOMER	MANUAL ZERO HALL PEN	FACTORY LINEARITY TABLE SUPPLIED	ACCESSORIES / MAGNET TYPE	PROJECT REVISION
ROTATIVE	4 Multiturn absolute contactless	A Aluminium	MM double M12 male + male wall mounted	C016 counter clock wise 16bits multiturn	C016 crossed multiturn 16bits	H 12-24Vdc nominal	051 CANopen standard	000 standard	0 not available (standard)	0 not supplied (standard)	002 M10 Screw 1,5mm Pitch Thread	1
			5M single M12 5P wall mounted									

EXAMPLE OF RESULTING ORDERING CODE

FTR4.A.MM.C016.C016.H.051.000.0.0.002.1

Further possibilities available, some options are mutually exclusive, please contact our team for more details.

EXAMPLE OF APPLICATION

